

Name:

Id#

**COE 205, Term 033**  
**Computer Organization & Assembly Programming**  
**Quiz# 3**

Date: Sunday, July 11, 2004

**Q1.** Suppose that the following data segment is allocated in the segment given in the DS register with an offset of 0. Show the content of the allocated memory, in hexadecimal. Note that the ASCII code of character 'A' is 41H and that of 'a' is 61H. The ASCII code of '\$' character is 24H.

```
I    DB    112, -112, 'CD'  
J    DW    256, 0EH  
K    EQU   23  
L    DW    J+K  
      DD    offset I+20  
Sname DB    5, 6 dup('$')
```

<i>Variable</i>	<i>Memory Address (Hex)</i>	<i>Memory Content Hex)</i>
	0000	
	0001	
	0002	
	0003	
	0004	
	0005	
	0006	
	0007	
	0008	
	0009	
	000A	
	000B	
	000C	
	000D	
	000E	
	000F	
	0010	
	0011	
	0012	
	0013	
	0014	
	0015	
	0016	

**Q2.** Write a program to ask the user to enter a character in upper case and in a new line print the character in both upper case and lower case.

**Q3.** Define a variable called Iname to be used for reading initial names of students such that the maximum allowed size is 15 characters for each name. Then show the code that will be used for reading a single name using INT 21H.